

## CLAIMS

1. An EGR cooler comprising tubes and a shell for enclosing said tubes, cooling water being supplied into and discharged from said shell, exhaust gas from a diesel engine being guided into said tubes to be heat exchanged with said cooling water, characterized in that an inner periphery of each of said tubes is formed with a spiral protrusion with an inclination angle in a range of  $26^{\circ}$ - $50^{\circ}$  to a plane perpendicular to an axis of the tube.

2. The EGR cooler according to claim 1, characterized in that an inner periphery of each of the tubes is formed with a plurality of streaks of spiral protrusions running without crossing and with phases peripherally shifted to each other.

3. The EGR cooler according to claim 1, characterized in that height of the spiral protrusion to an inner periphery of the tube is 5-15% of an inner diameter of the tube.

4. The EGR cooler according to claim 2, characterized in that that height of the spiral protrusion to an inner periphery of the tube is 5-15% of an inner diameter of the tube.